



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER OF PATENTS AND TRADEMARKS
Washington, D.C. 20231
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/924,778	08/08/2001	Michael L. Boroson	83120RLO	4335
7590	03/03/2003			

Thomas H. Close
Patent Legal Staff
Eastman Kodak Company
343 State Street
Rochester, NY 14650-2201

[REDACTED] EXAMINER

LAWRENCE JR, FRANK M

ART UNIT	PAPER NUMBER
1724	

DATE MAILED: 03/03/2003

5

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)
	09/924,778	BOROSON ET AL. <i>(Signature)</i>
Period for Reply	Examiner	Art Unit
	Frank M. Lawrence	1724

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 21 January 2003.

2a) This action is FINAL. 2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1-35 is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5) Claim(s) 1-24 is/are allowed.

6) Claim(s) 25, 26, 28-32 and 35 is/are rejected.

7) Claim(s) 33 and 34 is/are objected to.

8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

11) The proposed drawing correction filed on _____ is: a) approved b) disapproved by the Examiner.
If approved, corrected drawings are required in reply to this Office action.

12) The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) All b) Some * c) None of:
1. Certified copies of the priority documents have been received.
2. Certified copies of the priority documents have been received in Application No. _____.
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
* See the attached detailed Office action for a list of the certified copies not received.

14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
a) The translation of the foreign language provisional application has been received.

15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

1) Notice of References Cited (PTO-892)
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____

4) Interview Summary (PTO-413) Paper No(s) _____.
5) Notice of Informal Patent Application (PTO-152)
6) Other: _____

DETAILED ACTION

Specification

1. The disclosure is objected to because of the following informalities: The graphic table on page 21 of the specification should be deleted and submitted as a separate figure of drawing because such tables can not be reproduced in the printing process. Also, the specification should be amended to include a reference to the figure and a brief description.

Appropriate correction is required.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claims 25, 26, 28-32 and 35 are rejected under 35 U.S.C. 102(b) as being anticipated by Kyricos (5,445,876; figures 1, 2; col. 1, lines 5-20; col. 2, line 63 to col. 3, line 21; col. 4, line 36 to col. 5, line 29; claim 9).

4. Kyricos ('876) teaches a desiccant material including zeolite water adsorbing particles, a fibrous carrier, and a binder made of silica particles having a mean diameter between 50 and 500 nanometers. The silica particles are formed into siloxane bonds and function as an adhesive to allow shaping of the zeolite, which is present in between 10-90 wt. % of the mass (see figure 2). The desiccant can be used in sealed enclosures to absorb moisture and the binder strengthens the material without degrading absorption properties. The desiccant is inherently capable of providing a humidity level less than 100 ppm depending on the initial humidity in an application,

and the water vapor transmission rate of the binder and carrier will be greater than the rate recited in claim 32 because a porous unit is formed.

Allowable Subject Matter

5. Claims 1-24 are allowed.
6. The following is an examiner's statement of reasons for allowance: A desiccant including solid water-absorbing particles of one or more materials, the solid water absorbing particles including solid particles of one ore materials, at least one of which has an average particle size in a range of 0.001 to less than 0.1 microns to provide a high rate of water absorption and to provide an equilibrium humidity level lower than a humidity level to which a device is sensitive within a sealed enclosure, is not taught, disclosed or suggested in a single reference or a combination of references in the prior art of record. The closest prior art discloses a desiccant having water absorbing particles with an average particle size of 0.1 micron or higher.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

7. Claims 27, 33 and 34 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
8. The following is a statement of reasons for the indication of allowable subject matter: The desiccant as recited in claim 25, wherein a solid water absorbing particle from the group of claim 27 is used, or wherein the binder of claim 26 is used and is radiation curable, is not taught,

disclosed or suggested in a single reference or a combination of references in the prior art of record.

Response to Arguments

9. Applicant's arguments with respect to claims 25-35 have been considered but are moot in view of the new ground(s) of rejection. A new prior art rejection over Kyricos is presented to address the amendment to claim 25. Claims 1-24 have been sufficiently amended to overcome the previous prior art rejections, however independent claim 25 does not exclude the use of non-water absorbing nanoparticles in a desiccant.

Conclusion

10. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Frank M. Lawrence whose telephone number is 703-305-0585. The examiner can normally be reached on Mon-Thurs 7:30-5:00; alternate Fridays 7:00-4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David A. Simmons can be reached on 703-308-1972. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9310 for regular communications and 703-872-9311 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0651.

fl *[Signature]*
February 19, 2003

David A. Simmons
David A. Simmons
Supervisory Patent Examiner
Technology Center 1700